



AFP SURVEILLANCE

8-Jan-18

Week 01, ending 7 January 2018

Number 1005

Table 1: Acute Flaccid Paralysis (AFP) cases by week of onset

Country	Reported AFP cases by week of onset - Week (01/18) / Ending on : 08/01/2018														
	Total AFP 2016	Total AFP 2017	Total AFP to date, 2018	W42 22 Oct 17	W43 29 Oct 17	W44 05 Nov 17	W45 12 Nov 17	W46 19 Nov 17	W47 26 Nov 17	W48 03 Dec 17	W49 10 Dec 17	W50 17 Dec 17	W51 24 Dec 17	W52 31 Dec 17	W01 07 Jan 18
Afghanistan	2905	3074	9	62	49	63	55	54	48	63	80	74	51	46	9
Bahrain	14	18	0	0	0	0	0	1	0	0	1	1	0	0	0
Djibouti	3	4	0												
Egypt	1092	1240	0	17	15	24	23	22	21	14	37	30	20	11	
Iran	776	796	0	14	20	17	9	16	13	21	17	21	10	7	0
Iraq	605	682	3	19	5	8	14	11	12	17	16	16	10	9	3
Jordan ****	107	116	2	2	0	2	1	0	5	2	5	6	3	0	2
Kuwait	50	68	0	4	2	1	5	3	1	1	1	4	2	2	0
Lebanon ****	111	77	0	1	2	1	2	1	1	0	0	2	1	2	
Libya	70	88	1	3	2	4	0	4	2	1	2	0	0	2	1
Morocco	84	134	0	3	5	3	6	3	5	2	4	1			
Oman	39	40	0	2	4	2	1	0	0	3	2	0	1	1	0
Pakistan	7848	9707	0	189	214	161	174	204	197	152	164	143	62	14	0
Palestine ****	46	41	0	1	0	2	2	2	1	1	0	0	1	0	
Qatar	9	18	0	0	1	1	1	1	0	0	1	0	0		
Saudi Arabia	273	230	0	4	0	0	2	7	7	6	5	2	1	0	0
Somalia	316	344	0	4	6	11	5	6	2	6	4	5	2	3	0
Sudan	509	567	0	14	11	14	12	14	12	18	8	12	3	3	0
Syria ****	303	353	0	5	4	5	7	8	2	6	4	5	2	0	
Tunisia	90	61	0	1	3	1	1	1	0	1	1	0	0	0	
U.A.E	42	58	0	2	5	3	0	1	1	2	1	1	1	1	0
Yemen	715	704	0	15	13	13	20	14	16	17	14	8	12	6	
Total EMR	16007	18420	15	362	361	336	340	373	346	333	367	331	182	107	15

□ No data = No report received

Table 2: Confirmed polio cases by month of onset

Country	Total year 2016	Total year 2017	08/01		Confirmed polio cases by month of onset											
			2017	2018	February 2017	March 2017	April 2017	May 2017	June 2017	July 2017	August 2017	September 2017	October 2017	November 2017	December 2017	January 2018
Afghanistan	13	13	0	0	1	0	1	0	1	1		1	3	2	1	
Bahrain	0	0	0	0	0	0	0	0	0	0	0	0	0			
Djibouti	0	0	0	0												
Egypt	0	0	0	0	0	0	0	0	0	0	0	0	0			
Iran	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Iraq	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Jordan ****	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Kuwait	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Lebanon ****	0	0	0	0	0	0	0	0	0	0	0	0	0			
Libya	0	0	0	0	0	0	0		0	0	0	0	0	0		
Morocco	0	0	0	0	0	0	0	0	0	0	0	0	0			
Oman	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Pakistan	20	8	0	0	1	0	0	0	1	0	2	0	0	3		
Palestine ****	0	0	0	0	0	0	0	0	0	0	0	0	0			
Qatar	0	0	0	0	0	0	0	0	0	0	0	0	0			
Saudi Arabia	0	0	0	0	0	0										
Somalia	0	0	0	0	0	0	0	0	0		0	0	0			
Sudan	0	0	0	0	0	0	0	0	0	0	0	0	0			
Syria ****	0	0	0	0	0	0	0	0				0	0			
Tunisia	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.A.E	0	0	0	0	0	0	0	0	0	0	0	0	0			
Yemen	0	0	0	0	0	0	0	0	0							
Total EMR	33	21	0	0	2	0	1	0	2	1	2	1	3	5	1	0

**** UNRWA cases are included with those of country of residence



Table 3: Investigation of AFP cases with paralysis onset in 2016 & 2017 up to Week (01/18) / Ending on : 07/01/2018

COUNTRY	2017												2018												Latest line List Date						
	AFP									Specimen			Wild cases ****			AFP										Specimen			Wild cases ****		
	Total AFP cases onset 2017	Case classification					Non polio AFP rate **	AFP cases pending classification > 90 days from onset of paralysis	AFP cases pending classification and lab > 90 days from onset of paralysis	% with *** adequate specimens	Wild P1 Poliovirus	Wild P3 Poliovirus	Total AFP cases onset 2018	Case classification					Annualized Non polio AFP rate **	AFP cases pending classification > 90 days from onset of paralysis	AFP cases pending classification and lab > 90 days from onset of paralysis	% with *** adequate specimens	Wild P1 Poliovirus	Wild P3 Poliovirus							
		Total Confirmed Polio Cases *	Polio Compatible	Pending Classification	Discarded (non polio AFP)	VDPV								Total Confirmed Polio Cases *	Polio Compatible	Pending Classification	Discarded (non polio AFP)	VDPV													
Afghanistan	3074	13	0	202	2859	0	14.9	21	6	93.7	13	0	9	0	0	9	0	0	2.3	0	0	100.0	0	0	07-01-2018						
Bahrain	18	0	0	3	15	0	6.2	0	0	100.0	0	0	0	0	0	0	0	0	0.0	0	0		0	0	07-01-2018						
Djibouti	4	0	0	4	0	0	1.3	4	4	100.0	0	0	0	0	0	0	0	0	0.0	0	0		0	0	10-04-2017						
Egypt	1240	0	0	92	1147	1	3.3	5	0	93.1	0	0	0	0	0	0	0	0	0.0	0	0		0	0	04-01-2018						
Iran	796	0	0	14	782	0	4.2	0	0	96.9	0	0	0	0	0	0	0	0	0.0	0	0		0	0	07-01-2018						
Iraq	682	0	0	58	624	0	4.6	17	1	87.2	0	0	3	0	0	3	0	0	1.0	0	0	100.0	0	0	04-01-2018						
Jordan	116	0	0	39	77	0	4.2	11	0	99.1	0	0	2	0	0	2	0	0	3.8	0	0	100.0	0	0	04-01-2018						
Kuwait	68	0	0	5	63	0	7.4	0	0	94.1	0	0	0	0	0	0	0	0	0.0	0	0		0	0	07-01-2018						
Lebanon	77	0	0	15	62	0	4.1	6	0	76.6	0	0	0	0	0	0	0	0	0.0	0	0		0	0	05-01-2018						
Libya	88	0	0	3	85	0	4.3	1	1	96.6	0	0	1	0	0	1	0	0	2.1	0	0	100.0	0	0	07-01-2018						
Morocco	134	0	0	46	88	0	1.2	30	0	66.4	0	0	0	0	0	0	0	0	0.0	0	0		0	0	22-12-2017						
Oman	40	0	0	3	37	0	4.5	0	0	90.0	0	0	0	0	0	0	0	0	0.0	0	0		0	0	07-01-2018						
Pakistan	9707	8	0	1820	7879	1	12.4	331	0	81.0	8	0	0	0	0	0	0	0	0.0	0	0		0	0	07-01-2018						
Palestine	41	0	0	10	31	0	2.2	0	0	97.6	0	0	0	0	0	0	0	0	0.0	0	0		0	0	31-12-2017						
Qatar	18	0	0	5	13	0	6.1	0	0	94.4	0	0	0	0	0	0	0	0	0.0	0	0		0	0	24-12-2017						
Saudi Arabia	230	0	0	137	93	0	2.4	101	98	98.3	0	0	0	0	0	0	0	0	0.0	0	0		0	0	07-01-2018						
Somalia	344	0	0	12	332	0	6.0	1	1	99.1	0	0	0	0	0	0	0	0	0.0	0	0		0	0	07-01-2018						
Sudan	567	0	0	17	550	0	3.2	0	0	96.3	0	0	0	0	0	0	0	0	0.0	0	0		0	0	07-01-2018						
Syria	353	0	1	18	260	74	4.5	4	0	81.3	0	0	0	0	0	0	0	0	0.0	0	0		0	0	06-01-2018						
Tunisia	61	0	0	1	60	0	2.3	1	1	78.7	0	0	0	0	0	0	0	0	0.0	0	0		0	0	05-01-2018						
U.A.E	58	0	0	4	54	0	5.7	0	0	96.6	0	0	0	0	0	0	0	0	0.0	0	0		0	0	07-01-2018						
Yemen	704	0	0	239	465	0	5.1	69	52	90.8	0	0	0	0	0	0	0	0	0.0	0	0		0	0	06-01-2018						
EMR	18420	21	1	2747	15576	76	7.4	602	164	86.5	21	0	15	0	0	15	0	0	0.3	0	0	100.0	0	0							
2016	16008	33	5	1	15961	8	6.4	0	0	89.6	33	0																			

* Confirmed polio cases refer to wild isolation from AFP cases or from contacts of negative index AFP cases

** Non-polio AFP per 100,000 children <15 years

*** Adequate here refers to two stool specimens collected at least 24 hours apart, within 14 days of paralysis onset

**** AFP cases co infected with P1 and P3 are counted separately as wild isolates



World Health Organization – Regional Office for Eastern Mediterranean
AFP SURVEILLANCE
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Table 4 (a): Lab results of contacts' samples in EMR, 2017 - 2018

COUNTRY	2017						2018					
	# OF CONTACTS	LAB RESULTS					# OF CONTACTS	LAB RESULTS				
		WILD	VDPV	SL	NPEV	PENDING		WILD	VDPV	SL	NPEV	PENDING
AFG	1412	1		85	342	48	6					6
BAH	2											
DJI												
EGY	441			9	59	38						
IRN	135			5	1							
IRQ	698			13	98	29	4					4
JOR	2											
KUW	8					2						
LEB	92			2	3	39						
LIB	4					1						
MOR	70				6	5						
OMA	99			1	18	14						
PAK	3572	2		212	868	1						
PAL												
QAT												
SAA												
SOM	1032			36	112	33	3					3
SUD	376			6	26	64						
SYR	556		52	3	10	10						
TUN	26				1							
UAE	2											
YEM	1735			43	114	665	7					7
EMR	10262	3	52	415	1658	949	20	0	0	0	0	20

Table 4 (B): Most recent wild contacts in EMRO, 2017 - 2018

Year	Country	Data	
		Count of wild contacts	Date of Most Recent stool collection
2017	Pakistan	2	04-12-17
	Afghanistan	1	21-05-17
2017 Total		3	04-12-17

Table 4 (C): Number and distribution by district of -ve index AFP cases identified as wild positive by contact in EMR, 2017-2018

YEAR	COUNTRY	PROVINCE	DISTRICT	COUNT	First case	Last case
2017	AFG	HILMAND	NAWZAD	1	16-04-17	16-04-17
	AFG Total				1	16-04-17



Table 5: Laboratory investigation of AFP cases with paralysis onset in 2017 up to Week (01/18) / Ending on : (07/01/2018)

Country	Polio laboratories Sequencing performed by EGY, PAK, TUN, CDC and RIVM laboratories	AFP cases with specimens	Preliminary virus isolation results of AFP cases						Poliovirus intratypic differentiation results #									Indicators				Latest report Date				
			Referred for ITD		NPEV only	Negative	Pending		Type 1			Type 2			Type 3			Discordant pending sequence	NPEV by PCR	Non-EV	Pending ITD		% specimens positive for NPEV*	% AFP cases with culture results within 14 days	% AFP cases with ITD results within 7 days	% AFP cases with ITD results within 45 days of onset**
			L20B+	L20B+/NPEV			received < / = 14 days	received > 14 days ago	Wild	Sabin	VDPV	Wild	Sabin	VDPV	Wild	Sabin	VDPV									
Afghanistan	RRL Pakistan	1				1																				
Bahrain	PNL Oman																								08/01/2018	
Djibouti	NPL Kenya																								10/04/2017	
Egypt***	RRL Egypt																								04/01/2018	
Iran	NPL Iran	2				2																			06/01/2018	
Iraq	RRL Egypt	3				3																			07/01/2018	
Jordan	RRL EGYPT	1				1																			04/01/2018	
Kuwait	RRL Kuwait																								21/12/2017	
Lebanon	NPL Jordan																								04/01/2018	
Libya	RRL Tunisia																								05/01/2018	
Morocco	NPL Morocco																								05/01/2018	
Oman	NPL Oman																								08/01/2018	
Pakistan	RRL Pakistan																								07/01/2018	
Palestine & UNRWA																									31/12/2017	
Qatar	NPL Oman																								08/01/2018	
Saudi Arabia	NPL Oman																								02/01/2018	
Somalia	NPL Kenya																								07/01/2018	
Sudan	RRL Egypt	1				1																			07/01/2018	
Syria	RRL Egypt																								04/01/2018	
Tunisia	RRL Tunisia																								05/01/2018	
U.A.E	NPL Oman																								08/01/2018	
Yemen	RRL Egypt																								04/01/2018	
Total EMR 2018		8				8																				
Total EMR 2017		17608	884	97	3445	12770	245	165	20	552		10	34 *	660		23	22	2		17%	98%	99%	96%			

* Specimens from all sources including non-AFP cases, excluding environmental samples

* In 2017, 41 cVDPV2 were isolated from Syria by other Global Polio Laboratories Network (GPLN)

Syria reported a total of 74 cVDPV2 cases in 2017 out of which 8 were identified by positive contacts

** This indicator reflects surveillance and laboratory activities



Table 6: Environmental isolate by year and type

Country	Status	2010	2011	2012	2013	2014	2015	2016	2017	2018
AFG	NEGATIVE				9	78	129	183	262	
	PENDING								21	
	WILD					17	20	2	33	
AFG Total					9	95	149	185	316	0
EGY	NEGATIVE	416	447	412	472	452	412	528	509	
	PENDING								11	6
	WILD			2						
	VDPV1			1		1				
	VDPV2			7	3	2	3	1		
EGY Total		416	447	422	475	455	415	529	520	6
IRN	NEGATIVE								3	
	PENDING									
IRN Total									3	0
JOR	NEGATIVE							2	29	
	PENDING								2	
JOR Total								2	31	0
LEB	NEGATIVE							4	24	
	PENDING								2	
LEB Total								4	26	0
PAK	NEGATIVE	77	68	151	257	237	347	462	516	
	PENDING								12	
	WILD	79	136	88	63	125	79	59	100	
	WILD & VDPV2				2	6	5	3	1	
	VDPV2					4	8	5	4	
PAK Total		156	204	239	322	372	439	529	633	0
SOM	NEGATIVE								10	
	PENDING								12	
	VDPV2								2	
SOM Total									24	0
EMR	NEGATIVE	493	515	563	738	767	888	1179	1353	
	PENDING								60	6
	WILD	79	136	90	63	142	99	61	133	
	WILD & VDPV2				2	6	5	3	1	
	VDPV1			1		1			0	
VDPV2			7	3	6	11	6	6		
EMR Total		572	651	661	806	922	1003	1249	1553	6

Table 7: Environmental Wild/VDPV isolate by site

Year	Country	Status	Province	District	Count	First date	Last date		
2017	AFG	WILD1	HILMAND	LASHKARGAH	6	26-Apr	6-Dec		
			KABUL	KABUL	1	25-Oct	25-Oct		
			KANDAHAR	KANDAHAR	16	26-Jan	6-Dec		
			NANGARHAR	BEHSUD	2	24-Sep	26-Nov		
				JALALABAD	8	24-Jan	25-Dec		
	AFG Total				33	24-Jan	25-Dec		
	PAK	WILD1	BALOCHISTAN	KABDULLAH	KABDULLAH	12	1-Jan	15-Oct	
				LORALAI	LORALAI	3	17-Sep	17-Nov	
				PISHIN	PISHIN	5	2-Jan	2-Oct	
				QUETTA	QUETTA	11	1-Jan	12-Oct	
				ISLAMABAD	CDA	5	10-Feb	10-Jul	
				KHYBER PAKHTUNKHWA	PESHAWAR	8	10-Jan	11-Dec	
				PUNJAB	MULTAN	1	9-Jan	9-Jan	
					RAWALPINDI	8	10-Jan	10-Oct	
					SINDH	JACOBABAD	3	11-Aug	9-Nov
					KAMBAR	KAMBAR	1	15-Aug	15-Aug
					KHIBALDIA	KHIBALDIA	2	8-Aug	3-Nov
					KHIGADAP	KHIGADAP	20	9-Jan	11-Dec
					KHIGIQBAL	KHIGIQBAL	6	3-Feb	10-Oct
					KHIKORANGI	KHIKORANGI	1	16-Oct	16-Oct
	KHILANDHI	KHILANDHI	7	16-Mar	14-Dec				
	KHISITE	KHISITE	5	7-Aug	4-Dec				
	SUKKUR	SUKKUR	2	11-Apr	19-Sep				
	WILD1+VDPV2	BALOCHISTAN	KABDULLAH	1	15-Jul	15-Jul			
	VDPV2	BALOCHISTAN	PISHIN	1	2-May	2-May			
			QUETTA	3	3-Apr	29-May			
PAK Total				105	1-Jan	14-Dec			
SOM	VDPV2	BANADIR	WABERI	2	22-Oct	2-Nov			
SOM Total				2	22-Oct	2-Nov			
2017 Total				140	1-Jan	25-Dec			



Figure 1: Non Polio AFP Rate and Wild Virus in EMR 01/01/2017 - 31/12/2017

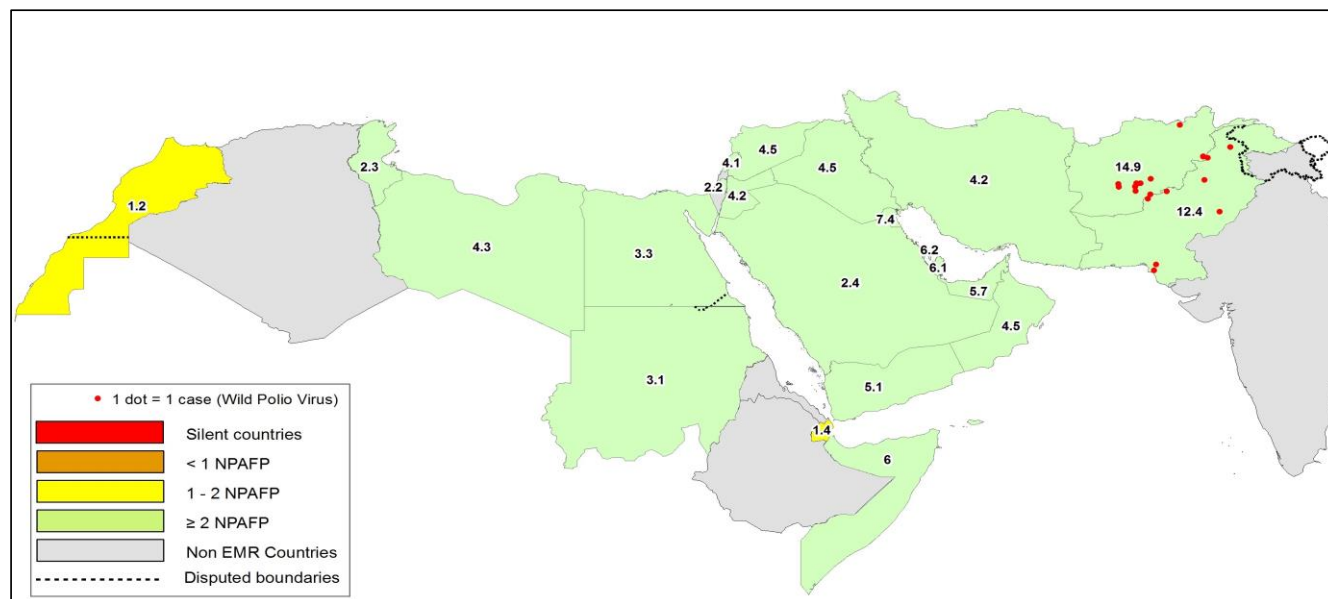


Figure 2: Percent of AFP cases with Adequate Samples & Compatible Cases in EMR 01/01/2017 - 31/12/2017

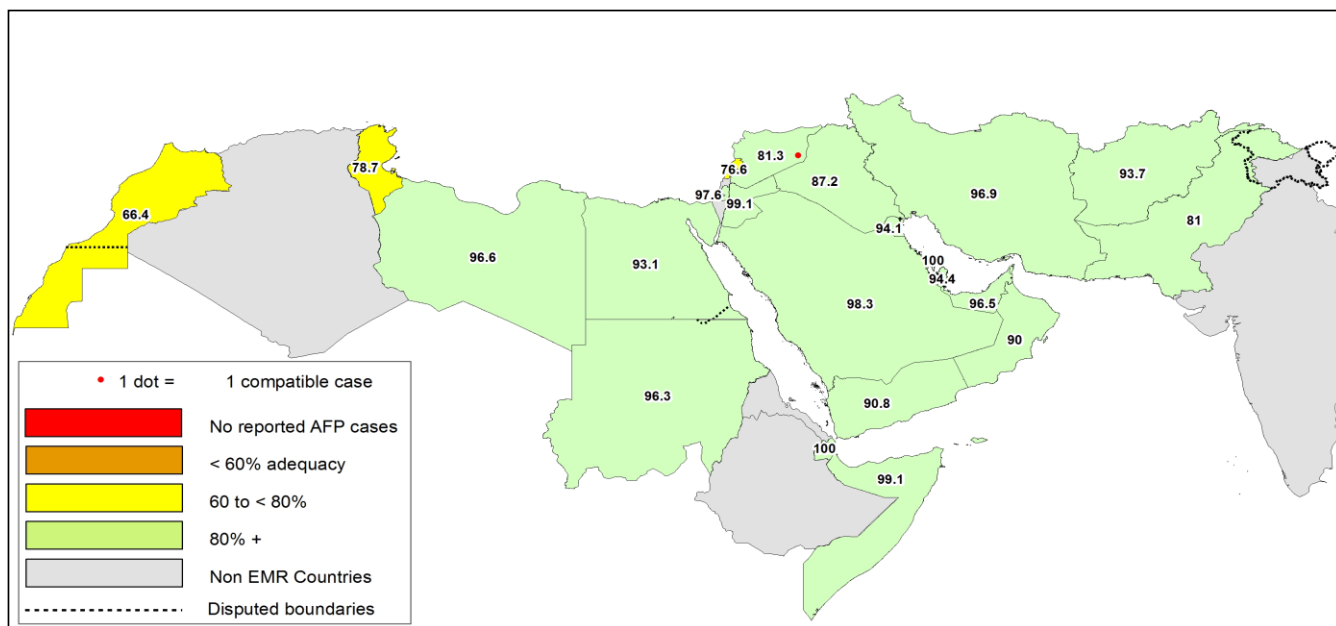


Table 8: Wild polio cases by country and date of onset of paralysis in EMR, 2017 - 2018

Year	COUNTRY	Count	First Case	Last Case
2017	AFG	13	13-01-17	03-12-17
	PAK	8	28-01-17	15-11-17
2017 Total		21	13-01-17	03-12-17

Last reported wild Polio P3 from Pakistan with date of onset 18/04/2012



Figure 3: Non Polio AFP rate by Province in Afghanistan & by District in Pakistan 01/01/2017 - 31/12/2017

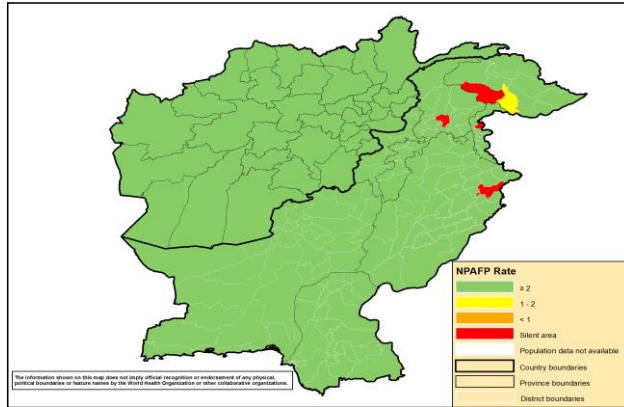


Figure 4: Percent of AFP cases with Adequate Samples in Afghanistan by Province & Pakistan by District 01/01/2017 - 31/12/2017

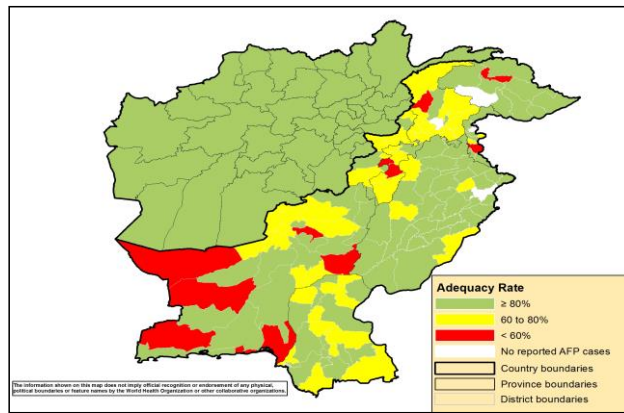
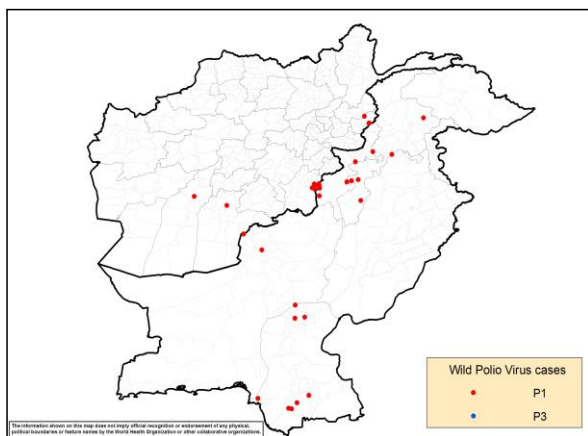


Figure 5: Wild Virus Cases by Type & District in Afghanistan & Pakistan

5a: 01/01/2016 - 31/12/2016



5b: 01/01/2017 - 31/12/2017

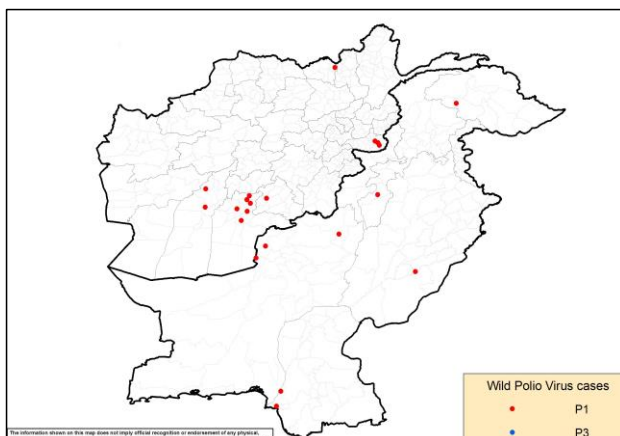




Table 9: Wild Polio cases by district and date of onset of paralysis, Afghanistan 2017-2018

ONSETYR	PROVINCE	DISTRICT	Count	First case	Last case
2017	KANDAHAR	SHAHWALIKOT	5	19-06-17	03-12-17
		KANDAHAR	1	13-01-17	13-01-17
	NANGARHAR	MUHMAND DARA	1	05-11-17	05-11-17
		BATIKOT	2	15-09-17	11-10-17
	ZABUL	ARGHANDAB (Z)	1	10-07-17	10-07-17
	HILMAND	NAWZAD	1	16-04-17	16-04-17
		NAHR-E-SARAJ	1	21-01-17	21-01-17
	KUNDUZ	DASHT-E-ARCHI	1	21-02-17	21-02-17
2017 Total			13	13-01-17	03-12-17

Table 10: Wild Polio cases by district and date of onset of paralysis, Pakistan 2017-2018

ONSETYR	PROVINCE	DISTRICT	Count	First case	Last case
2017	BALOCHISTAN	ZHOB	1	15-11-17	15-11-17
		KABDULAH	2	11-06-17	13-11-17
	SINDH	KHIGADAP	1	09-11-17	09-11-17
		KHIGIQBAL	1	11-08-17	11-08-17
	KHYBER PAKHTOON	LAKKIMRWT	1	21-08-17	21-08-17
	GILGIT BALTISTAN	DIAMER	1	13-02-17	13-02-17
	PUNJAB	LODHRAN	1	28-01-17	28-01-17
2017 Total			8	28-01-17	15-11-17

Table 11: Circulating VDPV cases and date of onset of paralysis in EMR countries by districts 2017-2018

Year	COUNTRY	PROVINCE	DISTRICT	Count	First Case	Last Case
2017	SYR	HOMS	TADMOUR	1	10-07-17	10-07-17
		DEIR_AL_ZOUR	DEIR ALZOUR	1	30-06-17	30-06-17
		DEIR_AL_ZOUR	BOKAMAL	12	25-06-17	21-09-17
		DEIR_AL_ZOUR	MAYADEEN	58	05-03-17	09-09-17
		RAQUA	THAWRA	1	16-06-17	16-06-17
		RAQUA	TALABYAD	1	25-04-17	25-04-17
	SYR Total			74	05-03-17	21-09-17
2017 Total				74	05-03-17	21-09-17



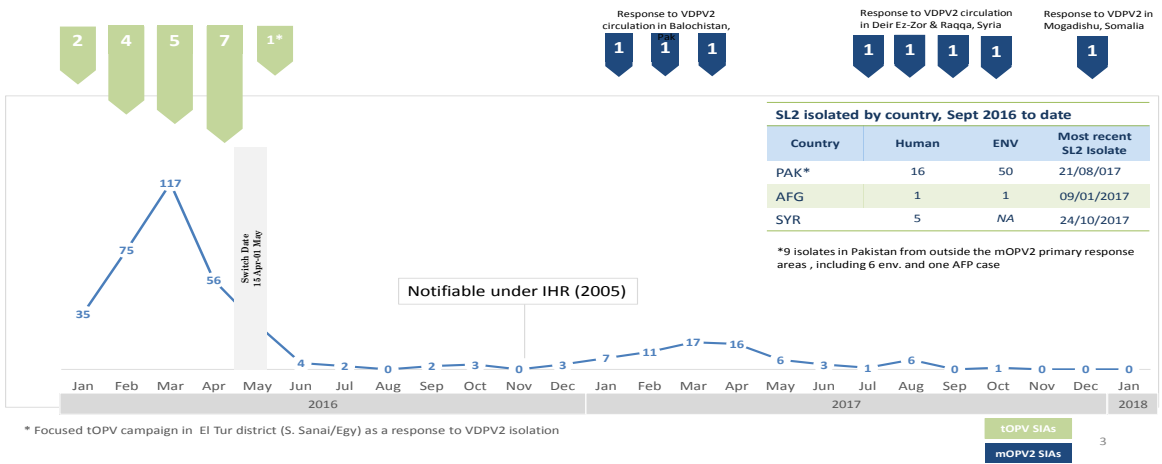
Table 12: VDPV2 and Sabin Like 2 isolates, EMRO countries 2017 - 2018

Country	Source	Poliovirus type 2 by month														2018	
		2017														2018	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan			
V2	S2	V2	S2	V2	S2	V2	S2	V2	S2	V2	S2	V2	S2	V2	S2	V2	S2
AFG	AFP																
	Contact																
	ENV		1														
	Others*																
BAH	AFP																
	Contact																
	Others*																
	Others*																
DJI	AFP																
	Contact																
	Others*																
	Others*																
EGY	AFP		1														
	Contact																
	ENV																
	Others*																
IRN	AFP																
	Contact																
	Others*																
	Others*																
IRQ	AFP			1													
	Contact																
	Others*																
	Others*																
JOR	AFP																
	Contact																
	ENV																
	Others*																
KWT	AFP																
	Contact																
	Others*																
	Others*																
LEB	AFP																
	Contact																
	ENV																
	Others*																
LIB	AFP																
	Contact																
	Others*																
	Others*																
MOR	AFP																
	Contact																
	Others*																
	Others*																
OMA	AFP																
	Contact																
	Others*																
	Others*																
PAK	AFP	1			5		1					1					
	Contact			1	1		2										
	ENV	5		9	11	1	10	3	6		3	1	1		2		
	Others*						2										
PNA	AFP																
	Contact																
	Others*																
	Others*																
QAT	AFP																
	Contact																
	Others*																
	Others*																
SAA	AFP																
	Contact																
	Others*																
	Others*																
SUD	AFP																
	Contact																
	Others*																
	Others*																
SOM	AFP																
	Contact																
	ENV													1		1	
	Others*																
SYR	AFP			2		4		15		12		8		22	2	3	
	Contact					2	1	18		12		4		21		3	1
	Others*									2		2	1				1
	Others*																
TUN	AFP																
	Contact																
	Others*																
	Others*																
UAE	AFP																
	Contact																
	Others*																
	Others*																
YEM	AFP																
	Contact																
	Others*																
	Others*																
EMR	AFP	1	1	1	2	5	4	1	15		12		8		22	3	3
	Contact			1		1	2	2	18		12		4		21		3
	ENV	6		9		11	1	10	3	6		3	1	1	2		2
	Others*							2					2		1		1

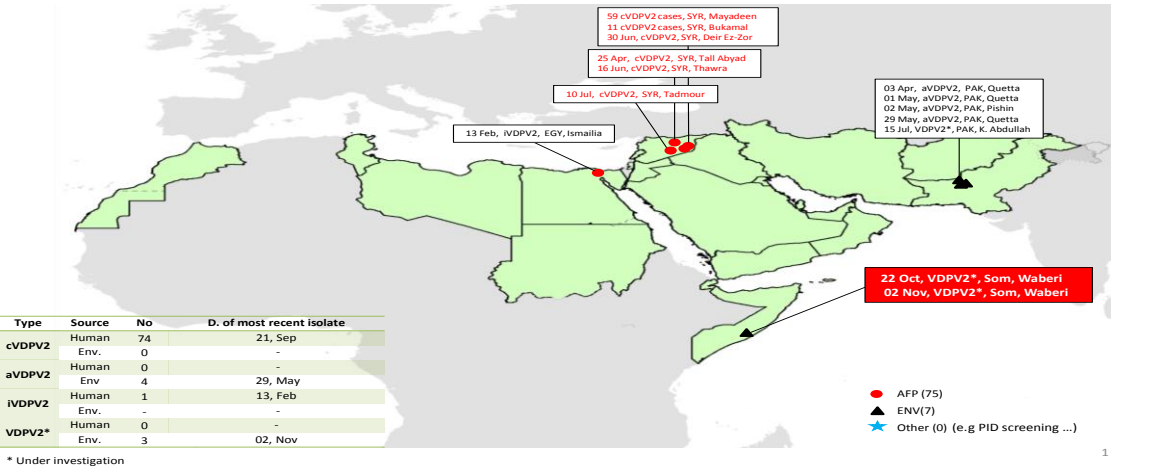
VDPV2
 *Other: Healthy children, PIDs
 ** VPDP2 isolated from index and contact at the same time



Sabin Like Type-2 Poliovirus Isolates (H & E) EMR, 2016- 17- 18



VDPV2 isolates, EMR countries, 2017



VDPV2 isolates, EMR countries, 2018

